Generator set data sheet



Model: C30 N6

kW rating: 30.0 natural gas Standby

30.0 propane Standby

Frequency: 60 Hz

Fuel type: Natural gas/propane

Emissions level: EPA emissions

	Natural gas			Propane				
	Standby			Standby				
Fuel consumption	kW (kVA)			kW (kVA)				
Ratings	30.0 (37.5)			30.0 (37.5)				
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
scfh	147.6	219.0	300.0	380.9	66.4	95.9	129.1	164.1
m³/hr	4.18	6.20	8.50	10.79	1.88	2.72	3.66	4.65

	Natural gas	Propane	
Engine	Standby rating	Standby rating	
Engine model	QSJ2.4		
Configuration	Cast iron, in-line 4 cylin	der	
Aspiration	Turbo		
Gross engine power output, kW _m (bhp)	36.9 (49.5)	36.9 (49.5)	
Bore, mm (in.)	86.5 (3.41)		
Stroke, mm (in.)	100.0 (3.94)		
Rated speed, rpm	1800		
Compression ratio	9.5:1		
Lube oil capacity, L (qt)	4 (4.54)		
Overspeed limit, rpm	2250		

Fuel supply pressure

Minimum operating pressure, kPa (in H ₂ O)	1.5 (6.0)
Maximum operating pressure, kPa (in H ₂ O)	3.2 (13.0)

	Natural gas	Propane
Air	Standby rating	Standby rating
Combustion air, m³/min (scfm)	1.7 (60.6)	1.6 (56.1)
Maximum air cleaner restriction, kPa (in H ₂ O)	1.49 (6.0)	
Alternator cooling air, m³/min (scfm)	N/A	

Exhaust

Exhaust flow at rated load, m³/min (cfm)	6.7 (240.1)	5.8 (207.6)
Exhaust temperature, °C (°F)	636 (1177)	641 (1186)
Exhaust back pressure (maximum allowable at engine), kPa (in H ₂ O)	5.0 (20)	5.0 (20)
Exhaust back pressure (actual with factory fitted muffler), kPa (in H ₂ O)	1.25 (5)	

Standard set-mounted radiator cooling

Ambient design, °C (°F)	50 (122)
Fan load, kW (HP)	2.1 (2.8)
Coolant capacity (with radiator), L (US gal)	10 (2.7)
Cooling system air flow, m³/min (scfm)	89.6 (3200)
Maximum cooling air flow static restriction, kPa (in H ₂ O)	0.12 (0.5)

Weights²

Unit dry weight kgs (lbs)	548 (1209)
Unit wet weight kgs (lbs)	564 (1245)

Notes: ¹For non-standard remote installations contact your local Cummins representative.

²Weights represent a set with 1-phase with sound level 1 enclosure.

Alternator data

Standard alternators		Natural gas/ propane single phase table	Natural gas/propane three phase table			
Maximum temperature ris	se above	120 °C	120 °C	120 °C	120 °C	120 °C
Feature code		B949-2	B986-2	B946-2	B943-2	B952-2
Alternator data sheet number		ADS-576	ADS-574	ADS-574	ADS-574	ADS-574
Voltage ranges		120/240	120/240	120/208	277/480	347/600
Voltage feature code		R104-2	R106-2	R098-2	R002-2	R114-2
Surge kW		30.5/30.5	30.9/30.9	30.9/30.9	30.9/30.9	30.9/30.9
Motor starting kVA (at 90% sustained voltage)	Shunt	57	71	71	71	71
	EBS	93	113	113	113	113
Full load current amps at Standby rating	•	125	90	104	45	36

Optional alternators for ir motor starting capability	nproved	Natural gas/ propane single phase table	Natural gas/propane three phase table			
Maximum temperature ris	se above	105 °C	105 °C	105 °C	105 °C	105 °C
Feature code		BB96-2	BB94-2	BB93-2	BB95-2	BB92-2
Alternator data sheet number		ADS-579	ADS-577	ADS-577	ADS-577	ADS-577
Voltage ranges		120/240	120/240	120/208	277/480	347/600
Voltage feature code		R104-2	R106-2	R098-2	R002-2	R114-2
Surge kW		31.0/31.0	31.1/31.1	31.1/31.1	31.1/31.1	31.1/31.1
Motor starting kVA (at 90% sustained voltage)	Shunt	68	86	86	86	86
	EBS	112	135	135	135	135
Full load current amps at Standby rating		125	90	104	45	36

Derating factors

Natural gas/propane

O II	Natural gas: Engine power available up to 762 m (2500 ft) at ambient temperatures up to 40 °C (104 °F). Above these elevations derate at 4% per 305 m (1000 ft) and 2% per 10 °C above 40 °C (104 °F).
Standby	Propane: Engine power available up to 1005 m (3300 ft) at ambient temperatures up to 40 °C (104 °F). Above these elevations derate at 4% per 305 m (1000 ft) and 2% per 10 °C above 40 °C (104 °F).

Ratings definitions

Emergency Standby Power (ESP):	Limited-Time Running Power (LTP):	Prime Power (PRP):	Base Load (Continuous) Power (COP):
Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.	Applicable for supplying power to a constant electrical load for limited hours. Limited-Time Running Power (LTP) is in accordance with ISO 8528.	Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.	Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) is in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.

Formulas for calculating full load currents:

Three phase output	Single phase output
kW x 1000	kW x SinglePhaseFactor x 1000
Voltage x 1.73 x 0.8	Voltage

Warning: Back feed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device or after building main switch is open.

For more information contact your local Cummins distributor or visit power.cummins.com



Model No. C30 N6 Modele

Serial No. K160119819 Serie

Spec

IMPORTANT!

Model & Serial No. Required When Ordering Parts. Modele & No. Serie Requis Pour Commander Des Pieces.

99-2433

CUMMINS POWER GENERATION 1400 73RD AVE. N.E. MINNEAPOLIS, MN 55432 U.S.A.

MADE IN U.S.A.

FREQUENCY SERVICE RATING PHASE RATED KW POWER FACTOR RATED KVA	1PH 30.0 1.0 30.0 8pct	STANDBY 3PH 0.0 0.0 0.0	1PH 0.0 0.0 0.0	PRIME 3PH 0.0 0.0
12 CAPABILITY CONNECTION BATTERY VOLTS 12 VDC 120/ 240		AMPS		AMPS

ROTATING SPEED 1800RPM

> NOMINAL RATED

> > INSUL: CLASS H AMB 40C

FUEL: MAX FLOW HG/LPV H FUEL: DESIGN ALTITUDE INLET PRESSURE 2.49 Ma (14.0" H20) up to 760 m (2500')

MAX: MAN: 1.40 W+ (8.0" H20) MARDAID DIAGRAM

see product literature for densities

A044K485



For Electrical Equipment Only Pour Material Electrique Seulement



OSHPD APPROVED

Special Seismic Certification Pre-Approva PER OSP-0375-10

MODELS: C60 N6H, C36 N6H, C30 N6H, C40 N6, C36 N6, C30 N6, C25 N6, C22 N6 & C20 N6



Sos(g) Z/H IP 2.5 1.0 1.5

SEISMIC CERTIFICATION CUMMINS POWER GENERATION

ELS: C80 N6H, C50 N6H, C45 N6H, C40 N6H, C36 N6H, C36 C40 N6, C36 N6, C30 N6, C25 N6, C22 N6 & C20 N6 CERTIFICATE 77789-1301-CERT

Reference Report:

Dynamic Certification Laboratories# 77789-1301

Approved performance Characteristics:

See 2.50, z/h 1.0



CUL US
LISTED
(STATIONARY ENGINE
GENERATOR ASSEMBLY)
11KL
LE: AU3044

